

E1

construct is integrated into the genome of said mammal in such a way that said protein-coding sequence is expressed in the mammary gland of said mammal.

21. The construct of claim 19 wherein said promoter is selected from the group consisting of the beta lactoglobulin promoter, whey acid protein promoter, and the lactalbumin promoter.
 22. The construct of claim 19 wherein said immunoglobulin protein-coding sequence encodes a light chain or a fragment thereof.
 23. The construct of claim 19 wherein said immunoglobulin is of human origin.
 25. The construct of claim 19 wherein said promoter is the casein promoter.
 26. The construct of claim 19, wherein the restriction site is an XhoI restriction site.
 27. The construct of claim 19, wherein the 3' non-coding sequence is a 3' non-coding region from a mammary-specific gene.
 28. The construct of claim 19, wherein the immunoglobulin protein-coding sequence encodes a heavy chain or a fragment thereof.
 29. A mammary gland epithelial cell comprising the construct of claim 22 and a construct comprising an immunoglobulin protein-coding sequence which encodes a heavy chain or a fragment thereof, operatively linked to a promoter sequence that results in the preferential expression of the protein-coding sequence in mammary gland epithelial cells, wherein the cell expresses the light and heavy chains and secretes a heterologous, assembled immunoglobulin comprising the light and heavy chains in functional form.
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E2

30. (Twice Amended) A mammary gland epithelial cell comprising the construct of